



भारत सरकार
Government of India
विद्युत मंत्रालय
Ministry of Power
केन्द्रीय विद्युत प्राधिकरण
Central Electricity Authority
विद्युत संचार विकास प्रभाग
Power Communication Development Division

| |
|---|
| CEA Case No.: TNG-100 |
| PTCC proposal of 220 kV DC line from existing 400/220 kV SS Jangaon to proposed 220/11 kV SS at Devannapet (55.00 km) |

| Reference: | | |
|------------|--|------------|
| S. No. | Reference No. | Dated |
| (i) | TSTRANSCO: ED(LIS)/SE(LI)/DE2(LI)/ADE2/ F.Devannapet-PTCC/D.No.341/2020 | 04.06.2020 |
| (ii) | BSNL: SR-PTCC/STS2869/05 | 09.07.2021 |
| (iii) | South Central Railway: SG.85/4/3/PTCC/SCRSTS202022 RTD | 25.06.2020 |
| (iv) | Defense: B/46937/Sigs 7(b)/2067 | 04.09.2020 |

The PTCC proposal submitted vide reference (i) has been examined. The LF induction on telecom lines of BSNL and block & telecom circuits of South Central Railway with respect to details furnished vide above reference (ii) and (iii) respectively, has been computed. The voltages likely to be induced on paralleling telecom lines of BSNL and block & telecom circuits of South Central Railway under Single Line to Ground fault condition are enclosed at Annexure-I and Annexure-II respectively. The screening factors, as applicable, have been considered. The Defense Authority have accorded NOC vide above reference (iv) for the proposed power line (a copy enclosed as Annexure-III).

Taking above into consideration, necessary action regarding issuance of PTCC route approval may be taken.

Encl.: As above.

Validity unknown

Digitally signed by RAGHUVENDRA PRATAP SINGH
Date: 2021.12.31 12:45:48 IST

Director

To,

| | | | |
|----|---|---|----------------------|
| 1. | Divisional Engineer (PTCC), Southern Zone | BSNL, Inspection Circle, 1st Floor, Raj Bhavan Exchange No. 26, Sardar Patel Road, Guindy, Chennai-600032 | |
| 2. | GM(S&T) | South Central Railway, Head Quarters Office, Signal & Telecom Branch, Rail Nilayam, Secunderabad - 500025 | Annex-II only |
| 3. | Executive Director (LIS) | TSTRANSCO, Vidyut Soudha, Hyderabad - 500082 | Copy for information |

Annex-I

CEA Case No: TNG-100

| Case No. STS 2869 | | SSA: WARANGAL | | | |
|---|---|--------------------------|------------|------------|-------------|
| Name of the power line: PTCC Proposal for Erection of 220 KV Twin Moose DC Line from the Existing 400/220 KV SS Jangaon to the Proposed 220/11 KV SS at Devannapet. | | | | | |
| Length: | | 55 Kms | | | |
| SR value: 20000 ohm-ms | | Type of BSNL cable: PIJF | | | |
| Sl.No. | Name of Telecom line | LOP in KMs | MC in Ohms | FC in Amps | IV in Volts |
| I KRL | KAZIPET EXCHANGE UG CABLES | | | | |
| 1 | Exge to Pillar.No.24.SBH KZP | | | | |
| 2 | Exge to Pillar.No.25.Vishnupuri Old | | | | |
| 3 | Exge to Pillar.No.26.Vishnupuri New | | | | |
| 4 | Exge to Pillar.No.27.Rly Stn | | | | |
| 5 | Exge to Pillar.No.28.Diesel Cly | | | | |
| 6 | Exge to Pillar.No.29.Rehamath nagar Old | | | | |
| 7 | Exge to Pillar.No.30.Rehamath nagar New | | | | |
| 8 | Exge to Pillar.No.31.Rly Qrs | | | | |
| 9 | Exge to Pillar.No.32.Nehru nagar Cly | | | | |
| 10 | Exge to Pillar.No.33.Ganesh Kiranam | | | | |
| 11 | Exge to Pillar.No.34.Jubilee Mkt | | | | |
| 12 | Exge to Pillar.No.35.Somidi Rd | | | | |
| 13 | Exge to Pillar.No.36.Somidi VI | | | | |
| 14 | Exge to Pillar.No.37.Bapuzi nagar Left | | | | |
| 15 | Exge to Pillar.No.38.Veg Mkt | | | | |
| 16 | Exge to Pillar.No.39.St.John School | | | | |
| 17 | Exge to Pillar.No.40.Rly Jr Collage | | | | |
| 18 | Exge to Pillar.No.41.Budida Gadda | | | | |
| 19 | Exge to Pillar.No.42.Anr City | | | | |
| 20 | Exge to Pillar.No.43.Bhavani nagar | | | | |
| 21 | Exge to Pillar.No.44.Somidi New | | | | |
| 22 | Exge to IZIZ KRL Exge | | | | |
| II REC | REC EXCHANGE UG CABLES | | | | |
| 1 | Exge to Pillar.No.21.Water tank | | | | |
| 2 | Exge to Pillar.No.22.Excise Office | | | | |
| 3 | Exge to Pillar.No.23.Kapil Chits | | | | |
| 4 | Exge to Pillar.No.24.Darga Corner | | | | |
| 5 | Exge to Pillar.No.25.Bharathi NH | | | | |
| 6 | Exge to Pillar.No.26.Karunya Homes | | | | |
| 7 | Exge to Pillar.No.27.St.Anns Hospital | | | | |
| 8 | Exge to Pillar.No.30.Fathima Arch | | | | |
| 9 | Exge to Pillar.No.31.NIT II Gate | | | | |
| 10 | Exge to Pillar.No.32.Chaithanyapuri | | | | |
| 11 | Exge to Pillar.No.36.Sidhardha nagar 2 | | | | |
| 12 | Exge to Pillar.No.41.Darga Center | | | | |
| 13 | Exge to Pillar.No.42.Afzal nagar | | | | |
| 14 | Exge to Pillar.No.43.Fathima nagar | | | | |
| 15 | Exge to Pillar.No.44.NIT Campus | | | | |
| 16 | Exge to Pillar.No.45.NIT Qrs | | | | |
| 17 | Exge to Pillar.No.46.Prashanth nagar | | | | |
| 18 | Exge to Pillar.No.47.Bank colony | | | | |

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Prakash
 प्रवीण श्रीवास्तव / PRAVEEN SRIVASTAVA
 सहायक निदेशक-II / Asst. Director-II
 केन्द्रीय विद्युत प्राधिकरण / C.E.A.
 विद्युत मंत्रालय / Ministry of Power
 नई दिल्ली / New Delhi

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|---------|---|--|--|--|--------------|
| 19 | Exge to Pillar.No.48.Ramakrishna Colony | | | | |
| 20 | Exge to Pillar.No.49.Revenue Colony Old | | | | |
| 21 | Exge to Pillar.No.50.Revenue Colony New | | | | |
| 22 | Exge to Pillar.No.59.Forest Office X Rd | | | | |
| 23 | Exge to Pillar.No.73.Bank Colony X Rd | | | | |
| 24 | Exge to Pillar.No.73A.Waddepally X Rd | | | | |
| 25 | Exge to Pillar.No.75.Teachers Cly | | | | |
| 26 | Exge to Pillar.No.76.Teachers Cly 1 | | | | |
| 27 | Exge to Pillar.No.27.Teachers Cly 2 | | | | |
| 28 | Exge to Pillar.No.78.Waddepally | | | | |
| 29 | Exge to Pillar.No.97.Revenue Cle Temple | | | | |
| 30 | Exge to IZ IZ REC Exge | | | | |
| III EXC | EXCISE COLONY EXCHANGE UG CABLES | | | | |
| 1 | Exge to Pillar.No.21.Hindhu Collage | | | | |
| 2 | Exge to Pillar.No.22.Captain Pillar | | | | |
| 3 | Exge to Pillar.No.23.H.No.2-7-747 | | | | |
| 4 | Exge to Pillar.No.24.Ramarao Pillar | | | | |
| 5 | Exge to Pillar.No.25.Judge | | | | |
| 6 | Exge to Pillar.No.26.Venkateshwara Temple | | | | |
| 7 | Exge to Pillar.No.27.Rythu Bazaar Lane | | | | IV less than |
| 8 | Exge to Pillar.No.28.Rythu Bazaar Lane | | | | 430 V |
| 9 | Exge to Pillar.No.29.H.No.2-7-613 | | | | |
| 10 | Exge to Pillar.No.30.Adarsha School | | | | |
| 11 | Exge to Pillar.No.31.Badi Baszid | | | | |
| 12 | Exge to Pillar.No.32.BD Paul Res | | | | |
| 13 | Exge to Pillar.No.33.Malla Reddy Res | | | | |
| 14 | Exge to Pillar.No.34.Rythu Bazaar Centre | | | | |
| 15 | Exge to Pillar.No.35.Reddy hostel | | | | |
| 16 | Exge to Pillar.No.36.Laxmi Kiranam | | | | |
| 17 | Exge to Pillar.No.37.Deaf & Dump School | | | | |
| 18 | Exge to Pillar.No.38H.No.2-7-1110 KD Cly | | | | |
| 19 | Exge to Pillar.No.39.Rajiv Park | | | | |
| 20 | Exge to Pillar.No.40.H.No.2-7-279 | | | | |
| 21 | Exge to Pillar.No.41.Chakra Aptmnt | | | | |
| 22 | Exge to Pillar.No.42.H.no 2-7-1246 | | | | |
| 23 | Exge to Pillar.No.43.Mahathi School | | | | |
| 24 | Exge to Pillar.No.44.2-7-1190 KD Cly | | | | |
| 25 | Exge to Pillar.No.45.Near Sainic School | | | | |
| 26 | Exge to Pillar.No.46.Vijay Paul Cly | | | | |
| 27 | Exge to Pillar.No.47.2-7-1393 | | | | |
| 28 | Exge to Pillar.No.48.2-7-1419 | | | | |
| 29 | Exge to Pillar.No.49H.No.2-7-208 | | | | |
| 30 | Exge to Pillar.No.50.2-7-182 | | | | |

Protect
 प्रोटेक्ट डी.डी.ए. / Assistant Director-II
 सहायक निदेशक-2 / Asst. Director-II
 केन्द्रीय विद्युत प्राधिकरण / C.E.A.
 विद्युत मंत्रालय / Ministry of Power
 भारत सरकार / Govt. of India
 नई दिल्ली / New Delhi

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| 33 | Exge to Pillar.No.53.H.No.408 | | | | |
| 34 | Exge to Pillar.No.54.2-8-18 Waddepally | | | | |
| 35 | Exge to Pillar.No.55.H.No.2-7-1050 | | | | |
| 36 | Exge to IZ IZ EXCY IZ | | | | |
| IV NGOS | NGOS EXCHANGE UG CABLES | | | | |
| 1 | Exge to Pillar.No.21.Jawahar Cly | | | | |
| 2 | Exge to Pillar.No.22.Waddepally | | | | |
| 3 | Exge to Pillar.No.23.Parimala Cly | | | | |
| 4 | Exge to Pillar.No.24.Water Tank | | | | |
| 5 | Exge to Pillar.No.25.NGOS Cly | | | | |
| 6 | Exge to Pillar.No.26.Sri nagar Cly | | | | |
| 7 | Exge to Pillar.No.27.Sneha nagar | | | | |
| 8 | Exge to Pillar.No.28.Vikas nagar X Rd | | | | |
| 9 | Exge to Pillar.No.29.VV Complex | | | | |
| 10 | Exge to Pillar.No.30.Gandhi nagar | | | | |
| 11 | Exge to Pillar.No.31.Ashok Cly | | | | |
| 12 | Exge to Pillar.No.32.Vikas nagar | | | | |
| 13 | Exge to Pillar.No.34.Sneha nagar | | | | |
| 14 | Exge to Pillar.No.35.Kalyani Function Hall | | | | |
| 15 | Exge to Pillar.No.36.VV Complex | | | | |
| 16 | Exge to Pillar.No.37.Bhavani nagar 2 | | | | |
| 17 | Exge to Pillar.No.38.Srinivasa Cly | | | | |
| 18 | Exge to Pillar.No.39.Bhavani nagar 1 | | | | |
| 19 | Exge to Pillar.No.40.TV Tower | | | | |
| 20 | Exge to Pillar.No.41.Raghavendra nagar | | | | |
| 21 | Exge to Pillar.No.42.Sri nagar Cly | | | | |
| 22 | Exge to Pillar.No.43.Balalah Hotel | | | | |
| 23 | Exge to Pillar.No.44.Indra nagar X Ed | | | | |
| 24 | Exge to Pillar.No.911(Parimala Cly Link) | | | | |
| 25 | Exge to Pillar.No.933Hanuman nagar | | | | |
| V KUC | KUC EXCHANGE UG CABLES | | | | |
| 1 | Exge to Pillar.No.21.Bhharath Cafe | | | | |
| 2 | Exge to Pillar.No.22.TB Hospital | | | | |
| 3 | Exge to Pillar.No.23.Venkataram RES. | | | | |
| 4 | Exge to Pillar.No.24.Admin Block KU | | | | |
| 5 | Exge to Pillar.No.25.Dr.Sathyanarayana RES | | | | |
| 6 | Exge to Pillar.No.26 B1223 C 0870E117 | | | | |
| 7 | Exge to Pillar.No.27.Bhimaram BS Left | | | | |
| 8 | Exge to Pillar.No.28.Bhimaram BS Right | | | | |
| 9 | Exge to Pillar.No.30.SVS Collage Back | | | | |
| 10 | Exge to Pillar.No.31.KUC I Gate (100pr) | | | | |
| 11 | Exge to Pillar.No.32.Pragadapally Rd | | | | |
| 12 | Exge to Pillar.No.33.Ramakrishna Kiranam (100 pr) | | | | |
| 13 | Exge to Pillar.No.34.B Ramulu Res | | | | |

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प्रतीक वास्तावा
सहायक निदेशक-II / Asst. Director-II
केन्द्रीय विद्युत प्राधिकरण / C.E.A.
विद्युत मंत्रालय / Ministry of Power
भारत सरकार / Govt. of India
नई दिल्ली / New Delhi

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|-----------------|---------------------------------------|--|--|--|--|
| 16 | Exge to Pillar.No.37.Gowtham School | | | | |
| 17 | Exge to Pillar.No.38.Sadananda Cly | | | | |
| 18 | Exge to Pillar.No.39.Saketha School | | | | |
| 19 | Exge to Pillar.No.41.Gopalpur X Rd | | | | |
| 20 | Exge to Pillar.No.42.Saraswathi nagar | | | | |
| 21 | Exge to Pillar.No.43.GP Gopalpur | | | | |
| 22 | Exge to Pillar.No.44.Vivek nagar | | | | |
| 23 | Exge to Pillar.No.45.Bank Colony | | | | |
| 24 | Exge to Pillar.No.46.Vijayanagar Cly | | | | |
| 25 | Exge to IZ Inner Zone | | | | |
| VI HSY | HASANPARTHY EXCHANGE UG CABLES | | | | |
| 1 | Exge to Pillar.No.21.Opp HSY Exge | | | | |
| 2 | Exge to Pillar.No.22.KITS X Rd | | | | |
| 3 | Exge to Pillar.No.23.KC Camp | | | | |
| 4 | Exge to Pillar.No.24.Narahari Res | | | | |
| 5 | Exge to Pillar.No.31.Cinima Hall | | | | |
| 6 | Exge to Pillar.No.32.Mechanic Shop | | | | |
| 7 | Exge to Pillar.No.33.Subhash Statue | | | | |
| 8 | Exge to Pillar.No.34.HSY Bus Stand | | | | |
| 9 | Exge to Pillar.No.35.HSY Temple | | | | |
| VII J | JANGAON EXCHANGE UG CABLES | | | | |
| 1 | Exge to Pillar.No.21 | | | | |
| 2 | Exge to Pillar.No.22 | | | | |
| 3 | Exge to Pillar.No.23 | | | | |
| 4 | Exge to Pillar.No.24 | | | | |
| 5 | Exge to Pillar.No.25 | | | | |
| 6 | Exge to Pillar.No.26 | | | | |
| VIII MLK | MALKAPUR EXCHANGE UG CABLES | | | | |
| 1 | Exge to Pillar.No.21 | | | | |
| 2 | Exge to Pillar.No.22 | | | | |
| IX DRS | DHARMASAGAR EXCHANGE UG CABLES | | | | |
| 1 | Exge to Pillar.No.21 | | | | |
| 2 | Exge to Pillar.No.22 | | | | |
| X MPM | MUPPARAM EXCHANGE UG CABLES | | | | |
| 1 | Exge to Pillar.No.21 | | | | |
| XI MAD | MADIKONDA EXCHANGE UG CABLES | | | | |
| 1 | Exge to Pillar.No.21 | | | | |
| 2 | Exge to Pillar.No.22 | | | | |
| 3 | Exge to Pillar.No.23 | | | | |
| 4 | Exge to Pillar.No.24 | | | | |

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श्रीक श्रीवास्तव/PRATEEK SRIVASTAVA
 सहायक निदेशक-II/Asstt. Director-II
 केन्द्रीय विद्युत प्राधिकरण/C.E.A.
 विद्युत मंत्रालय/Ministry of Power
 भारत सरकार/Govt. of India
 नई दिल्ली/New Delhi

CEA Case No.: TNG-100

ANNEXURE - II

Name of the Power Line: 220 kV DC line from existing
400/220 kV SS Jangaon to proposed 220/11 kV SS at
Devannapet

Map Scale : 1 cm = 500 m.
Route Length : 55.00 km
Soil Resistivity : 20,000 Ohm-cm

| S.No. | Telecom Details | Length of Parallelism (in km) | Mutual Coupling (Ohms) | Fault Current (Amps) | Induced Voltage (Volts) |
|-------|-----------------|-------------------------------|------------------------|----------------------|-------------------------|
|-------|-----------------|-------------------------------|------------------------|----------------------|-------------------------|

| SOUTH CENTRAL RAILWAY SG.85/4/3/PTCC/SCRTS202022 RTD dated 25.06.2020 | | | | | |
|--|-------------------------------|-----|--------|-------|---|
| Affected Blocks & Telecom Circuits Details | | | | | |
| 1 | Aler - Pambarti | | | | |
| 2 | Pambarti - Jangaon | | | | 0 |
| 3 | Jangaon - Raghunathapalli | | | | 0 |
| 4 | Raghunathapalli - Ippaguda | 1.1 | 0.0001 | 10000 | 1 |
| 5 | Ippaguda - Ghanpur | | | | 0 |
| 6 | Ghanpur - Nashkal | | | | 0 |
| 7 | Nashkal - Pindial | | | | 0 |
| 8 | Pindial - Kazipet | 1.9 | 0.0003 | 7500 | 2 |
| 9 | Kazipet - Warangal | 6.2 | 0.0007 | 8200 | 6 |
| 10 | Kazipet - Komatipalli | | | | 0 |
| 11 | Komatipalli - Hasanparti Road | | | | 0 |
| 12 | Hasanparti Road - Uppal | 0.6 | 0.0001 | 10000 | 1 |

Prateek

प्रतीक श्रीवास्तव / PRATEEK SHRIWASTWA
सहायक निदेशक-II / Asstt. Director-II
केन्द्रीय विद्युत प्राधिकरण / C.E.A.
विद्युत मंत्रालय / Ministry of Power
भारत सरकार / Govt. of India
नई दिल्ली / New Delhi

Tele : 23019746

INA-100

Directorate General of Signals
Signals - 7
General Staff Branch
Integrated HQ of MoD, (Army)
DHQ PO, New Delhi - 110011

Annex - III

B/46937/Sigs 7(b)/2067

04 Sep 2020

Executive Director, Lift Irrigation Schemes
Transmission Corporation of Telangana Limited
TSTRANSCO
Vidyut Soudha,
Hyderabad - 500 082

**ERECTION OF 220KV TWIN MOOSE DC LINE FROM 400/220KV JANGAON SUB-STATION
TO 220/11KV DEVANNAPET LIFT IRRIGATION SUB-STATION-55KM IN WARANGAL
(URBAN) DIST. UNDER PHASE-III. J.CHOKKA RAO DEVADULA GODAVARI LIFT
IRRIGATION SCHEME-PTCC PROPOSALS-FORWARDED-REGARDING**

1. Ref your letter No Lr. No. ED(LIS)/SE(LI)/DE2(LI)/ADE2/D.Devannapet-PTCC/D.No. 341/2020 dt 04 Jun 2020 (copy att).
2. No Objection Certificate (NOC) is accorded based on inputs provided vide Map sheets received under your above mentioned letter.
3. Documents alongwith map sheets (in original) are returned herewith for your further necessary action.

(A. Rawat)
Maj
GSO 1 (Comn)
for SO-in-C

Enclosures : (As above)

Copy to :-

The Director (PTCC), CEA
Power Communication Development Division
NRPC Complex, 18-A Shaheed Jeet Singh Marg
Katwaria Sarai, New Delhi - 110016

for information

The DET(PTCC), Northern Zone
O/o PGM (North), QA & Inspection Circle,
D-Tax Building, Janpath
New Delhi-110001